

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A vascular access device comprising:
a housing; and
a septum having an opening through which a needle may pass and a biasing element operably engaged to the septum urging the opening to a closed condition, the septum and biasing element disposed within the housing.
2. (Previously presented) the vascular access device of claim 1 wherein the opening comprises a slit.
3. (Previously presented) The vascular access device of claim 1 further comprising a tube attached to and in fluid communication with the housing.
4. (Previously presented) The vascular access device of claim 3 further comprising a female adapter attached to the tube.
5. (Cancelled)
6. (Previously presented) The vascular access device of claim 1 wherein the biasing element is a C-shaped clip.
7. (Previously presented) The vascular access device of claim 6 wherein the septum has a dumbbell shape and the C-shaped clip is directly engaged to the septum.

8. (Currently amended) A vascular access device including:

a catheter;

a housing in fluid connection with the catheter;

a septum disposed within the housing and having a length and a biasing element ~~disposed in the housing and about the~~ operably engaging the septum and urging the septum to a closed condition wherein the biasing element is ~~disposed in the housing about the~~ septum and in contact with the outside longitudinal surface of the septum, wherein the biasing element is in a single fixed location with respect to the housing and continuously exerts a biasing force on the septum, wherein said septum further comprises an annular groove disposed in the outer surface of the septum and wherein the biasing element is placed in contact with the annular groove;

a needle slidably disposed with respect to the catheter, the needle having a proximal end and a distal end with an opening at the proximal end, wherein the needle defines a notch therein adjacent to the distal end, and wherein a notch distance is defined as the distance between a proximal end of the notch and a distal end of the opening in the distal end of the needle;

wherein the length of the septum is greater than the notch distance such that leakage of bodily fluid emanating from the distal end of the needle, catheter and the notch is contained within the septum even when the needle is slidably disposed within the septum.

9. (Original) The vascular access device of claim 8 wherein the septum includes an elastic plug disposed in the housing and having a proximal end, a distal end, an outside longitudinal surface extending between the proximal end and the distal end, and a slit disposed longitudinally through the elastic plug.

10-12. (Cancelled)

13. (Currently amended) A catheter assembly, comprising:

a catheter;

an adapter connected to the catheter, the adapter defining a cavity therein;

an elastic plug disposed in the adapter and defining a length, a circumference and a slit disposed longitudinally through the elastic plug;

a biasing element disposed in the adapter about the elastic plug and in contact with the circumference at a permanently fixed position wherein the biasing element urges the septum to a closed condition is a C-shaped metal clip; and

a removable needle extending through the slit, the needle having a proximal end and a distal end with an opening at the proximal end, wherein the needle defines a notch therein adjacent to the distal end, and wherein a notch distance is defined as the distance between a proximal end of the notch and a distal end of the opening in the distal end of the needle such that leakage of bodily fluid emanating from the distal end of the needle, catheter and the notch is contained within the elastic plug even when the needle is slidably disposed within the elastic plug.

14. (Original) The catheter assembly of claim 13 wherein the biasing element exerts a radially directed compressive force against the outside longitudinal surface of the elastic plug.

15. (Original) The catheter assembly of claim 13 wherein the biasing element does not extend completely about the circumference.

16. (Original) The catheter assembly of claim 13 wherein the elastic plug is mounted to the adapter at a fixed axial position.

17. (Original) The catheter assembly of claim 13.

18. (Original) The catheter assembly of claim 13 wherein the elastomeric plug has a dumbbell shape.

19. (Original) The catheter assembly of claim 13 further comprising a tube in fluid communication with the adapter and a finger grip attached to the needle at its proximal end.

20. (Original) The catheter assembly of claim 19 wherein the biasing element is a C-shaped clip that does not extend completely about the circumference of the elastic plug but does exert a radially directed compressive force against the outside longitudinal surface of the elastic plug.

21. (Previously presented) The vascular access device of claim 6 wherein the clip is constructed of metal or metal alloy.

22. (Previously presented) The vascular access device of claim 8 wherein the biasing element is a C-shaped clip.

23. (Previously presented) The vascular access device of claim 22 wherein the biasing element is constructed of metal or metal alloy.